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Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=10; day=22; hr=13; min=58; sec=59; ms=24;]

=====

Reviewer Comments:

<220>

<221> modified_base

<222> 4

<223> N = tetrafluoroindole

<400> 15

ctgntagcct ctggatttga

20

The above "N" response for sequence id# 15 is invalid. FYI, "N" can only represent a single nucleotide. Please correct the remaining sequences showing similar errors.

Application No: 10592919 Version No: 3.0

Input Set:**Output Set:**

Started: 2008-09-22 14:39:31.674
Finished: 2008-09-22 14:39:32.993
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 319 ms
Total Warnings: 47
Total Errors: 0
No. of SeqIDs Defined: 48
Actual SeqID Count: 48

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 251	Found intentionally skipped sequence in SEQID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
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W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)

Input Set:

Output Set:

Started: 2008-09-22 14:39:31.674
Finished: 2008-09-22 14:39:32.993
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 319 ms
Total Warnings: 47
Total Errors: 0
No. of SeqIDs Defined: 48
Actual SeqID Count: 48

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (22) This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Michael, T. Migawa
Walter F. Lima
Eric E. Swayze
Joshua Nichols
Hongjiang Wu
Thazha P. Prakash
Tadeusz Krzysztof Wyrzykiewicz
Balkrishen Bhat
Stanley T. Crooke

<120> COMPOSITIONS AND METHODS FOR OPTIMIZING
CLEAVAGE OF RNA BY RNASE H

<130> CORE0037USA

<140> 10592919
<141> 2008-09-22

<150> PCT/US2005/008428
<151> 2005-03-15

<150> 60/609,516
<151> 2004-09-13

<150> 60/567,016
<151> 2004-04-29

<150> 60/553,646
<151> 2004-03-15

<160> 48

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<210> 2
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<220>
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<400> 2
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<210> 3
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 3
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<210> 4
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cttgacaaag caaacaaga caaggccaac cgatacttct ctccaaattt taagggtgaaa 1980
ctatacttta caaaaacagt agaggagcca tcaaattccag aggctagcag ttcaacttct 2040
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<220>
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<210> 6
<211> 25
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<213> Artificial Sequence

<220>
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<400> 6
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<210> 7
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
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<210> 8
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<210> 9

<400> 9
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<210> 15
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<213> Artificial Sequence

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<220>
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<222> 4
<223> N = tetrafluoroindole

<400> 15
ctgntagcct ctggatttga 20

<210> 16
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<400> 16
ctgcnagcct ctggatttga 20

<210> 17
<211> 20
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<400> 17
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<210> 18
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<400> 22
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<210> 23
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<220>
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<222> 16
<223> N = tetrafluoroindole

<400> 23
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<400> 24
ctgctagcct ctggntttga 20

<210> 25
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<400> 25
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<210> 26
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<400> 26
ctgctagcct ctngatttga 20

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<400> 27
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<210> 28
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<223> N = N-3-methyl-2'MOE-thymidine

<400> 28
ctgctagcct ctgganttga 20

<210> 29
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<212> DNA
 <213> Artificial Sequence

<220>
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<220>
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 <222> 7
 <223> N = 2'-ara-fluorothymidine or pseudouridine or
 2'-fluorothymidine or 2-thiouridine or
 2'-S-methylthymidine or 4'-methylthymidine or
 3'-methylthymidine

<400> 29
 ctacgcnttc cacgcacagt 20

<210> 30
 <211> 20
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<220>
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 <223> 2'-ara-fluorothymidine or pseudouridine or
 2'-fluorothymidine or 2-thiouridine or
 2'-S-methylthymidine or 4'-methylthymidine or
 3'-methylthymidine

<400> 30
 ctacgctntc cacgcacagt 20

<210> 31
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 <223> 2'-ara-fluorothymidine or pseudouridine or
 2'-fluorothymidine or 2-thiouridine or
 2'-S-methylthymidine or 4'-methylthymidine or
 3'-methylthymidine or abasic nucleotide or 2,4-F-tolyl

<400> 31
 ctacgcttnc cacgcacagt 20

<210> 32
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<212> DNA
 <213> Artificial Sequence

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<220>
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 <222> 10
 <223> 2'-ara-fluorocytidine or abasic nucleotide or
 2,4-F-tolyl

<400> 32
 ctacgctttn cacgcacagt 20

<210> 33
 <211> 20
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<400> 33
 ctacgctttc nacgcacagt 20

<210> 34
 <211> 20
 <212> DNA
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<220>
 <223> Synthetic oligonucleotide

<220>
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 <222> 12
 <223> adenine with propyl linker or adenine with butyl
 linker or adenine with pentyl linker or
 tetrahydrofuran or 4-Me-ben

<400> 34
 ctacgctttc cncgcacagt 20

<210> 35
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 <223> 2'-ara-fluorocytidine

 <400> 35
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 <223> 2'-ara-fluorocytidine or cytidine with propyl
 linker or cytidine with butyl linker or cytidine
 with pentyl linker

 <400> 37
 ctacgctttc cacgnacagt 20

 <210> 38
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 <220>
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 <223> N= Tetraflouroindole

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<220>

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<222> 5

<223> N= Tetraflouroindole or N=
2,3,4,5-tetraflourophenyl

<400> 39

agttnagggtc tccgatcgtc 20

<210> 40

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<212> DNA

<213> Artificial Sequence

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<223> Synthetic oligonucleotide

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<221> modified_base

<222> 6

<223> N= Tetraflouroindole or N=
2,3,4,5-tetraflourophenyl

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<210> 41

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<212> DNA

<213> Artificial Sequence

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<220>
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<220>
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<222> 6, 16
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